

ABSTRACT

5 A polyacetal resin composition of high flame
retardancy and stability comprises a polyacetal resin, a
flame retardant, and a basic nitrogen-containing compound
(urea, amidine, aminotriazine, hydrazine, derivatives
thereof, amide, urethane). The flame retardant may com-
prise an aromatic compound reactive to formaldehyde and
a phosphorus-containing compound (e.g., red phosphorus,
10 organic phosphonates, organic phosphinates, ammonium
polyphosphate, and other phosphoric acid salts, phos-
phates), and the aromatic compound may be a hydroxyl group
and/or amino group-containing compound or an aromatic
ring-containing resin (e.g., novolak resins, aralkyl
15 resins, vinylphenol resins, aniline resins, aromatic nylon
resins, polycarbonate resins, polyarylate resins, aro-
matic epoxy resins, aromatic polyether resins). The ratio
of the phosphorus-containing compound per 100 parts by
weight of the aromatic compound is 1 to 500 parts by weight.
20 The ratio of the flame retardant per 100 parts by weight
of the polyacetal resin is 1 to 100 parts by weight, and
the ratio of the nitrogen-containing compound is 0.01 to
80 parts by weight. The polyacetal resin may further
comprise a drip inhibitor, an oxidation inhibitor, a heat
25 stabilizer, a filler, an inorganic flame retardant, an
inhibitor for inhibiting the formation of a phosphoric acid
derivative, an impact resistance improver.

20250722/09/50